

# Missouri Department of Natural Resources



## PUBLIC NOTICE

### DRAFT MISSOURI STATE OPERATING PERMIT

DATE: August 25, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by September 24, 2006 or received in our office by 5:00 p.m. on September 27, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm>, or at the Department of Natural Resources, St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: August 25, 2006  
Permit Number: MO-0080888  
St. Louis Regional Office

| FACILITY NAME AND ADDRESS   | NAME AND ADDRESS OF OWNER                             |
|---|---|
| City of Foristell Lagoon<br>Hwy. W<br>Foristell, MO 63348           | City of Foristell<br>#10 Hwy T<br>Foristell, MO 63348 |
| RECEIVING STREAM & LEGAL DESCRIPTION                                | TYPE OF DISCHARGE                                     |
| McCoy Creek<br>NE ¼, SW ¼, Sec. 18, T47N, R1E<br>St. Charles County | Domestic; transfer/reissuance                         |

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**  
MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0080888

Owner: City of Foristell  
Address: No. 10 Highway T, Foristell, MO 63348

Continuing Authority: Same as above  
Address: Same as above

Facility Name: City of Foristell Lagoon  
Facility Address: Hwy. W, Foristell, MO 63348

Legal Description: NE ¼, SW ¼, Sec. 18, T47N, R1E, St. Charles County  
Latitude/Longitude: +38.83289/-90.95503

Receiving Stream: McCoy Creek (U)  
First Classified Stream and ID: McCoy Creek (C) (ID # 0214)  
USGS Basin & Sub-watershed No.: 07110008-040003

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

### FACILITY DESCRIPTION

#### Outfall #001 – POTW - SIC #4952

Three cell facultative lagoon/sludge stored in lagoon.  
Design population equivalent is 440.  
Design flow is 44,000.  
Actual sludge production is 6.6 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

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Effective Date

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Doyle Childers, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

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Expiration Date

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Mike Struckhoff, Director, St. Louis Regional Office

| <b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>   |       |                            |                   |                    | PAGE NUMBER    2 of 4    |                     |
|--|-------|----------------------------|-------------------|--------------------|--------------------------|---------------------|
|  |       |                            |                   |                    | PERMIT NUMBER MO-0080888 |                     |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                            |                   |                    |                          |                     |
| (OUTFALL NUMBER AND EFFLUENT PARAMETERS)   | UNITS | FINAL EFFLUENT LIMITATIONS |                   |                    | MONITORING REQUIREMENTS  |                     |
|  |       | DAILY<br>MAXIMUM           | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE      |
| <u>Outfall #001</u>  |       |                            |                   |                    |                          |                     |
| Flow   | MGD   | *                          |                   | *                  | Daily                    | 24-hour<br>Estimate |
| Biochemical Oxygen Demand <sub>5</sub> **  | mg/L  |                            | 65                | 45                 | Once/month               | Grab                |
| Total Suspended Solids**   | mg/L  |                            | 120               | 80                 | Once/month               | Grab                |
| pH – Units   | SU    | ***                        |                   | ***                | Once/month               | Grab                |
| Ammonia as N   | mg/L  | *                          |                   | *                  | Once/month               | Grab                |
| Temperature  | °F    | *                          |                   | *                  | Once/month               | Grab                |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.  |       |                            |                   |                    |                          |                     |
| <b>B. STANDARD CONDITIONS</b>  |       |                            |                   |                    |                          |                     |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, II & III STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.   |       |                            |                   |                    |                          |                     |

MO 780-0010 (8/91)

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)**

- \*    Monitoring requirement only.
- \*\*   This facility is required to meet a removal efficiency of 65% or more.
- \*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0 to 9.0 pH units

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - a. Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - b. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - c. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances.

The permittee shall notify the Director as soon as it knows or has reason to believe:

  - a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (1) One hundred micrograms per liter (100 µg/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - b. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
  - c. That the effluent limit established in part A of the permit will be exceeded.
5. Report as no-discharge when a discharge does not occur during the report period.
6. Water Quality Standards.
  - a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
  - b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
    - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
    - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
    - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
    - (5) There shall be no significant human health hazard from incidental contact with the water;
    - (6) There shall be no acute toxicity to livestock or wildlife watering;
    - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
    - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- a. Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
- b. If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

D. Schedule of Compliance

- a. By June 30, 2007, the permittee shall submit to the Department a study of the existing lagoon system and the receiving stream which will identify (1) the extent of sludge accumulation in the existing lagoon system, (2) the extent to which the existing facility has impacted the receiving stream through either accumulations of biosolids from the discharge or from other effects. The report shall also make recommendations for the correction or elimination of any observed receiving stream impacts and also it shall identify any upgrades to the existing facility or new facilities that are needed to avoid future impacts to the receiving stream.
- b. By December 30, 2007, the permittee shall submit an application for a construction permit for any facility upgrades or improvements that are needed to eliminate and correct water quality problems to the receiving stream.
- c. By June 30, 2009, the permittee shall complete construction of any upgrades or new facilities that are determined to be needed to remedy impacts to the receiving stream.

DRAFT

Date of Fact Sheet: July 31, 2006

Date of Public Notice: August 25, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT  
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0080888

FACILITY NAME: City of Foristell Lagoon

OWNER NAME: City of Foristell

LOCATION: NE ¼, SW ¼, Sec. 18, T47N, R1E, County: St. Charles

RECEIVING STREAM: McCoy Creek (U)

FACILITY CONTACT PERSON: Keith Nelson TELEPHONE: (636) 463-2123

FACILITY DESCRIPTION AND RATIONALE

The facility is a three cell facultative lagoon located north of the City of Foristell. The facility was previously owned by Eastern Missouri Utility Company and was sold to the City of Foristell in early 2002. The permit for this facility expired April 23, 2003 and has not been renewed. A review of the discharge monitoring reports submitted between February, 2005 and March, 2006 showed that the average 5-day biochemical oxygen demand in the effluent was 32.5 mg/L with a range from 4 mg/L to 105 mg/L. The average total suspended solids in the discharge during the same period was 19.0 mg/L with a range from 3 mg/L to 52 mg/L.

Inspections by St. Louis Regional Office staff conducted in the fall of 2005 showed sludge accumulations in the receiving stream. This permit contains a compliance schedule that will require the permittee to evaluate the treatment system and its impact on the receiving stream and also correct any problems that exist and upgrade or replace the lagoon system as necessary to rectify the problems.

This permit will be issued for a period of five years.